

Abstract of the Disclosure

A general optical storage system (OSS) contains an optical drive and a fluorescent multilayer disc (FMLD), which can be realized as a multilayer structure with data storage in fluorescent spots like pits or spiral grooves, divided by layers, transparent to reading and 5 fluorescent radiation. The OSS includes a fluorescent signal reception device, capable of reading FMLD, as well as reflective CD and DVD discs (including CD-R, CD-RW, DVD-R, etc.). Increase of pit width in FMLD and use of microangle mirrors allow increasing information signal. Elimination of FMLD fluorescence lifetime influence on data pulses duration allows increasing data reading rate. The absorption indices of different layers of 10 FMLD were optimized.

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